PRN:		Course Code :	ECE304R1

Third Year **B. Tech** End Semester Examination Summer 2023

Video Engineering

Day and Date: Thursday, 15/06/23 Max Marks: **100**

Time : 10:30 – 1:30 pm Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Demonstrate composite video signal with neat diagram.	08	4	1
	b)	Explain horizontal sync details and vertical sync details.	08	2	1
		OR			
	b)	Define scanning. Explain interlaced scanning.	08	2	1
Q.2		**Attempt the following**			
	a)	Illustrate generation of Luminance signal and chrominance signal.	08	3	2
	b)	Elaborate colour mixing theory in detail.	08	4	2
		OR			
	b)	Elaborate PAL coder and decoder.	08	4	2
Q.3		**Attempt any two from the following**			
	a)	Explain signal quantization and encoding in DTV system	08	2	3
	b)	Define Digital TV and Explain merits of DTV.	08	3	3
	c)	Describe Digital TV signals and parameters.	08	2	3
Q.4		**Attempt any two from the following**			
	a)	Illustrate colorimetric characteristics and parameters of HDTV.	08	3	4
	b)	Explain scanning frequencies in D2-MAC packet signal.	08	2	4
	c)	Define MAC signals. Express D2-MAC packet signal.	08	4	4
Q.5		**Attempt any Two of the following**			
	a)	Illustrate special types of microphone.	09	3	5
	b)	Describe the PA system for Auditorium.	09	2	5
	c)	Illustrate the concept of Acoustic Reverberation and necessity of reverberation.	09	3	5
Q.6		**Attempt any Two of the following**			
	a)	Draw & Explain DTH receiver system.	09	3	6
	b)	Illustrate CCTV in detail.	09	3	6
	c)	Explain details of Plasma Technology.	09	2	6

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